



**Weatherford®**

Superfund Records Ctr  
2210388

**SFUND RECORDS CTR**

**DAVID K. MORGAN**  
CORPORATE COUNSEL  
(713) 693-4175 DIRECT DIAL  
(713) 693-4480 FAX

August 16, 2007

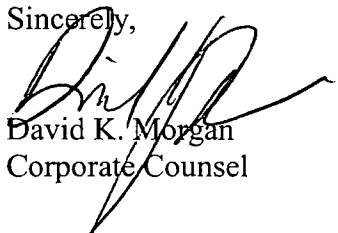
Mr. Andrew Taylor  
Case Developer, Mail Stop SFD-7-5  
U.S. Environmental Protection Agency, Region IX  
75 Hawthorne Street  
San Francisco, CA 94105  
**Via FedEx**

**Re: Request for Information Pursuant to CERCLA Section 104(e); former  
Trico Industries Facility; Los Angeles County, California**

Dear Mr. Taylor:

Please find enclosed a copy of Weatherford's response to the EPA's request for information pertaining to the former Trico Industries Facility. Feel free to contact me if you have any questions in this regard.

Sincerely,

  
David K. Morgan  
Corporate Counsel

**RESPONSE OF WEATHERFORD INTERNATIONAL, LTD TO THE UNITED  
STATES ENVIRONMENTAL PROTECTION AGENCY REQUEST FOR  
INFORMATION PURSUANT TO SECTION 104(e) OF CERCLA**

**RE: former Trico Industries facility; 19706 Normandie Avenue and 1206 W. 196<sup>th</sup>  
Street, Los Angeles County, California**

**INTRODUCTION**

On or about June 26, 2007, the United States Environmental Protection Agency sent a request for information to Weatherford International, Ltd. ("Respondent"), 515 Post Oak Blvd, Suite 600, Houston, Texas 77027, via certified mail, pursuant to Section 104(e) of CERCLA (42 U.S.C. Section 9601).

**INCORPORATED OBJECTIONS AND DENIAL**

Respondent, on behalf of itself and its designated subsidiary and affiliated entities, objects to the Request and the instructions and definitions contained therein, to the extent they are vague, overly broad, overly burdensome, or not supported by statute. Respondent further objects to the Request to the extent it seeks material that is confidential and subject to any applicable privilege recognized at common law or otherwise, including attorney-client privilege and the work-product privilege.

**CONFIDENTIAL INFORMATION**

The contents of Response to Questions # 2, 3 and Exhibits # 1, 2, 3, 4, 7, 9 are deemed to be confidential. This information is not available to the general public for disclosure and is only available to certain individuals within Respondent's organization on a "need to know" basis. The Respondent is restricted from publishing these materials pursuant to confidentiality provisions as provided in the materials. The contents of these Exhibits are proprietary and privileged and could be harmful to Respondent's competitive position if disclosed to the general public. These materials contain sensitive information regarding Respondent's business holdings, asset market value, agreement terms and conditions, and acquisition costs. Respondent requests that the contents of these Responses and Exhibits remain confidential on a permanent basis.

Subject to these objections, Respondent, through its designated representative, responds as follows:

**Response to Question #1**

Gary Kennedy  
3356 Lime Ave  
Signal Hill, CA 90755-4612  
(562) 492-9222 Office Direct  
(562) 755-1996 Cell  
District Manager- (1997- present) Trico Industries/Weatherford  
Region Product Line Manager (1987-1997) Trico  
Branch Manager (1984-1987) Gemoco  
Inside Sales/Warehouse (1981-1984) Trico

David K. Morgan  
515 Post Oak Blvd, Suite 600  
Houston, TX 77027  
(713) 693-4175  
Corporate Counsel, Weatherford – (2005 – 2007)

Doug Schneider  
515 Post Oak Blvd, Suite 600  
Houston, TX 77027  
(713) 693-4302  
Claims Manager, Weatherford – (1997 – 2007)

Patrick Ford  
515 Post Oak Blvd, suite 600  
Houston, TX 77027  
(713) 693-4330  
Senior Environmental Property Manager, Weatherford - (1999 – present)

Nadia Matt  
515 Post Oak Blvd, suite 600  
Houston, TX 77027  
(713) 693-4181  
Corporate Secretarial Services Administrator & Assistant Secretary, Weatherford  
– (2005 – Present)  
Senior Legal Assistant, Weatherford – (2000-2005)  
Legal Assistant, Weatherford - (1996-2000)  
Corporate Secretary & Administrative Manager, CRC-Evans Pipeline International, Inc.  
– (1992 – 1996)  
Executive Secretary, Crutcher Resources Corp,  
Secretary, CRC-Crose Pipeline International, Inc. - (1969-1996)

Through mergers & acquisitions remained employed by Weatherford, the surviving entity

**Response to Question #2**

**This response contains CONFIDENTIAL INFORMATION.**


CBI Claimed



**Pages 6-10 Redacted**

**Confidential Business Information**

CBI Claimed



**Response to Question #3**

**This response contains CONFIDENTIAL INFORMATION.**

CBI Claimed



**Response to Question #4**

Respondent has no record, knowledge or history of the background or operation of American Chemsolv, Inc

**Response to Question #5**

Respondent did not acquire the property when Respondent purchased Trico from PACCAR on October 9, 1997. Thus, Respondent never owned or operated the property. The property was excluded from the purchase between Respondent and PACCAR as evidenced in Section 1.13 and Schedule 1.13.1 of the Stock Purchase Agreement.

Furthermore, pursuant to Section 2.3 and 9.8 of the Stock Purchase Agreement dated October 9, 1997, PACCAR agrees to indemnify, defend and hold harmless Respondent, arising from or otherwise related to any excluded asset, of which property is one. (See *Exhibit 7* for a copy of the stock purchase agreement).

**Response to Question #6**

The plant manager from approx. 1981-1992 was Leo Cahill. Mr. Cahill is deceased.

The manufacturing manager was George Wells who was last employed with Trico in approx. 1987. His address is unknown.

The environmental manager was Kevin Vest. His last known address was 5515 US HWY 281 N, Marble Falls, TX 78654, (512) 473-3200

**Response to Question #7**

Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.

**Response to Question #8**

Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.

**Response to Question #9**

Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.

**Response to Question #10**

Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.  
See Respondent's response to Question #5.

**Response to Question #11**

Respondent did not acquire, own or operate the property. Trico acquired the property when it merged with B & W, Incorporated in or about November 1980. Trico began operations at that property in early 1981.

On September 28, 1992, Trico sold equipment used at the property to Weatherford-Petco. (See *Exhibit 8* for a copy of the asset purchase between Trico and Weatherford-Petco).

- a) The primary function of the facility was the manufacture of centralizers and float equipment. (See *Exhibit # 9* for a copy of a 1984-1985 products catalogue).
- b) Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.

#### **Response to Question #12**

Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.

#### **Response to Question #13**

Aside from the information and names provided in Question #6, Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.

#### **Response to Question #14**

Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.

#### **Response to Question #15**

Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.

#### **Response to Question #16**

Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.



**Response to Question #17**

See *Exhibit 7*, referencing the asset exclusion/stock purchase agreement.

**Response to Question #18**

Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.

**Response to Question #19**

Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.

**Response to Question #20**

Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.

**Response to Question #21**

Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.

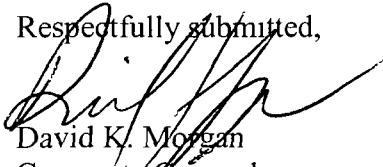
**Response to Question #22**

Respondent did not acquire, own or operate the property; therefore it does not possess or know the whereabouts of any information or documents responsive to this request.

These responses are made based on a good-faith investigation into the matters solicited in the Request, and based on a comprehensive review of documents within the possession, custody, or control of Weatherford, or that were otherwise available to Weatherford. Weatherford respectfully reserves the right to supplement or amend these responses as necessary, desirable, or as further information may require.

Should you have any questions, please contact David K. Morgan at (713) 693-4175.

Respectfully submitted,

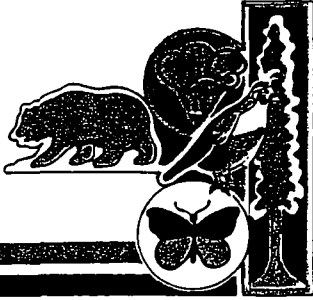


David K. Morgan  
Corporate Counsel  
Weatherford

**CONFIDENTIAL INFORMATION**

The materials provided herein are deemed to be confidential. This information is not available to the general public for disclosure and is only available to certain individuals within Respondent's organization on a "need to know" basis. The Respondent is restricted from publishing these materials pursuant to confidentiality provisions as provided in the materials. The contents of this Exhibit is proprietary and privileged and could be harmful to Respondent's competitive position if disclosed to the general public. These materials contain sensitive information regarding Respondent's business holdings, asset market value, agreement terms and conditions, and acquisition costs. Respondent requests that the contents of these Responses and Exhibits remain confidential on a permanent basis.

**Pages 17-149 Redacted (Exhibits 1-4)**  
**Confidential Business Information**



State  
of  
California  
SECRETARY OF STATE

EXHIBIT 5

TRICO INDUSTRIES, INC.

I, *BILL JONES*, Secretary of State of the State of California,  
hereby certify:

That the annexed transcript was prepared by and in  
this office from the record on file, of which it purports to  
be a copy, and that it is full, true and correct.

IN WITNESS WHEREOF, I execute  
this certificate and affix the Great  
Seal of the State of California this

MAY 21 1996



*Bill Jones*

Secretary of State

A227450

157568 SURV

FILED

In the office of the Secretary of State  
of the State of California

JAN 5 1981

MARCH FONG EU, Secretary of State

By Bill Hulse  
Deputy

AGREEMENT OF MERGER  
BETWEEN  
TRICO INDUSTRIES, INC.  
AND  
B & W INCORPORATED.

This Agreement of Merger is entered into between TRICO INDUSTRIES, INC., a California corporation (herein "Surviving Corporation") and B & W INCORPORATED, a California corporation (herein "Merging Corporation") pursuant to the provisions of the Trico Industries, Inc. -- B & W Incorporated Agreement and Plan of Reorganization dated November 13, 1980.

(1) Merging Corporation shall be merged into Surviving Corporation, without amendment to the articles of Surviving Corporation.

(2) On the effective date of the merger, each outstanding share of Merging Corporation shall be converted to 5.698745 common shares of Surviving Corporation, with cash to be paid in lieu of any fractional share of Surviving Corporation based upon the closing price of its common shares on January 2, 1981.

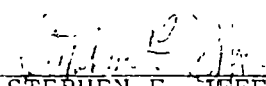
(3) The outstanding shares of Surviving Corporation shall remain outstanding and are not affected by the merger.


(4) Merging Corporation shall from time to time, as and when requested by Surviving Corporation, execute and deliver all such documents and instruments and take all such action necessary or desirable to evidence or carry out this merger.

(5) The effect of the merger and the effective date of the merger are as prescribed by law.

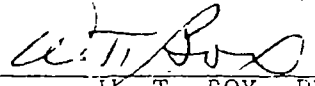
IN WITNESS WHEREOF the parties have executed this Agreement of Merger on January 5, 1981.

B & W INCORPORATED,

By   
STEPHEN F. JEFFERS, PRESIDENT

By   
LEE WILLIAMS, ASSISTANT  
SECRETARY.

TRICO INDUSTRIES, INC.,

By   
W. T. BOX, PRESIDENT

By   
EDWARD KANE, ASSISTANT SECRETARY

CERTIFICATE OF APPROVAL  
OF  
AGREEMENT OF MERGER


W. T. Box and Edward Kane, certify that:

(1) They are the president and assistant secretary, respectively, of Trico Industries, Inc., a California corporation.

(2) The principal terms of the Agreement of Merger in the form attached were duly approved by the board of directors of the corporation.

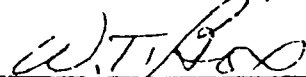
(3) The Agreement of Merger was entitled to be and was approved by the board of directors alone under the provisions of Section 1201 of the Corporations Code.

  
W. T. BOX, President

  
EDWARD KANE, Assistant Secretary.

The undersigned declare under penalty of perjury that the matters set forth in the foregoing certificate are true of their own knowledge.

Executed at Los Angeles, California January 5, 1981.

  
W. T. BOX

  
EDWARD KANE



CERTIFICATE OF APPROVAL  
OF  
AGREEMENT OF MERGER.

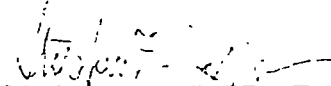
STEPHEN F. JEFFERS and LEE WILLIAMS certify that:

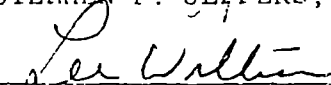
(1) They are the president and the assistant secretary, respectively, of B & W Incorporated, a California corporation.

(2) The principal terms of the Agreement of Merger in the form attached were duly approved by the board of directors and shareholders of the corporation.

(3) The shareholder approval was by the holders of 100% of each class of the outstanding shares of the corporation.

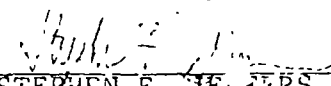
(4) There are two classes of shares outstanding and the total number of shares outstanding is 80,895, of which 15,000 shares are Class A Common Stock and 65,895 shares are Class B Common Stock.

  
STEPHEN F. JEFFERS, President

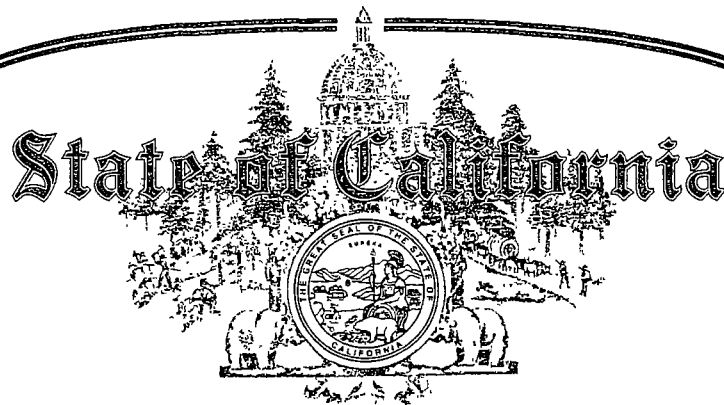
  
LEE WILLIAMS, Assistant Secretary

The undersigned declare under penalty of perjury that the matters set forth in the foregoing certificate are true of their own knowledge.

Executed at Los Angeles, California January 5, 1981.

  
STEPHEN F. JEFFERS

  
LEE WILLIAMS



SECRETARY OF STATE

I, *BILL JONES*, Secretary of State of the State of California, hereby certify:

That the attached transcript of 4 page(s) was prepared by and in this office from the record on file, of which it purports to be a copy, and that it is full, true and correct.

*IN WITNESS WHEREOF*, I execute this certificate and affix the Great Seal of the State of California this day of

MAR 06 2001

*Bill Jones*

Secretary of State



00626678

FILED

In the office of the Secretary of State  
of the State of California

JUL 28 2000

*Bill Jones*  
BILL JONES Secretary of State

0157568 out  
**CERTIFICATE OF OWNERSHIP**

OF

**TRICO INDUSTRIES, INC.**  
(A California Corporation)

INTO

**WEATHERFORD ARTIFICIAL LIFT SYSTEMS, INC.**  
(A Delaware Corporation)

To the Secretary of State  
State of California

Pursuant to the provisions of the General Corporation Law of the State of California, the undersigned officers of the foreign parent corporation hereinafter named do hereby certify as follows:

1. The name of the parent corporation, which is a business corporation of the State of Delaware, and which is to be the surviving corporation under the merger herein certified, is Weatherford Artificial Lift Systems, Inc. (hereinafter called the "Parent Company").
2. The name of the subsidiary corporation, which is a business corporation of the State of California, and which is to be the disappearing corporation under the merger herein certified, is Trico Industries, Inc. (hereinafter called the "Subsidiary")
3. The Parent Company owns 100% of the outstanding shares of Subsidiary.
4. The following is a copy of the resolution to merge the Subsidiary into its Parent Company as adopted and approved by the Board of Directors of the Parent Company:

**"RESOLVED THAT:**

- i) Parent Company, which is a business corporation of the State of Delaware and is the owner of all of the outstanding shares of Subsidiary, which is a business corporation of the State of California, does hereby merge Subsidiary into its Parent Company pursuant to the provisions of the General Corporation Law of the State of California and pursuant to the provisions of the General Corporation Law of the State of Delaware, and does hereby assume all of the liabilities of the Subsidiary;
- ii) Subsidiary shall be the disappearing corporation upon the effective date of the merger herein provided for pursuant to the provisions of the General Corporation Law of the State of California, and Parent Company shall continue its existence as the

surviving corporation pursuant to the provisions of the General Corporation Law of the State of Delaware:


iii) The issued shares of Subsidiary shall not be converted in any manner, nor shall any cash or other consideration be paid or delivered therefor, inasmuch as the Parent Company is the owner of all outstanding shares of Subsidiary, but each said share which is issued as of the complete effective date of the merger shall be surrendered and extinguished:

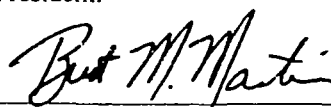
iv) The Board of Directors and the proper officers of the Parent Company are hereby authorized, empowered and directed to do any and all acts and things, and to make, execute, deliver, file, and/or record any and all instruments, papers and documents which shall be or become necessary, proper or convenient to carry out or put into effect any of the provisions of the merger herein provided for:

v) The merger herein provided for shall become effective upon the filing in the State of Delaware.

On the date set forth below, in the City Houston, in the State of Texas, each of the undersigned does hereby declare under the penalty of perjury under the laws of the State of California that he signed the foregoing certificate in the official capacity set forth beneath his signature, and that the statements set forth in said certificate are true of his own knowledge.

Executed on this 20<sup>th</sup> day of June, 2000.

  
\_\_\_\_\_  
E. Lee Colley, III  
President.

  
\_\_\_\_\_  
Burt M. Martin  
Assistant Secretary



STATE OF CALIFORNIA  
FRANCHISE TAX BOARD  
PO BOX 1468  
SACRAMENTO CA 95812-1468

## TAX CLEARANCE CERTIFICATE

EXPIRATION DATE: November 15, 2000

July 28, 2000

CSC  
2730 GATEWAY OAKS DR STE 100  
SACRAMENTO CA 95833-3503

ISSUED TO : TRICO INDUSTRIES, INC.  
ENTITY ID : 0157568

This letter certifies that all taxes imposed under the Bank and Corporation Tax Law on this corporation have been paid or are secured by bond, deposit, or other security.

Please note the following:

- \* A final tax return, if not already filed, is due two months and 15 days after the close of the month in which dissolution or withdrawal takes place. If the corporation was inactive prior to that date, attach a statement to the tax return giving the date it became inactive.
- \* Filed tax returns remain subject to audit until the expiration of the statute of limitations.
- \* If the corporation does not file the tax returns, we may issue additional assessments.

We sent a copy of this Tax Clearance Certificate to the Secretary of State. Please retain this letter for your records.

PLEASE NOTE: By the expiration date above, the corporation must file all documents required by the Secretary of State to dissolve, withdraw, or merge. If the corporation does not complete this process, it will remain subject to the filing requirements of the Bank and Corporation Tax Law.

To obtain these documents, please write to:

SECRETARY OF STATE  
1500 11th St., 3rd Floor  
SACRAMENTO, CA 95814-5701

July 28, 2000  
CSC  
ENTITY ID : 0157568  
Page 2

Franchise Tax Board  
Telephone (800) 852-5711

By H. Hermansen  
Tax Clearance Unit  
Special Audit Section  
Telephone (916) 845-4124



*State of Delaware*  
*Office of the Secretary of State*      PAGE 1

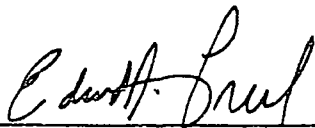
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I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"TRICO INDUSTRIES, INC.", A CALIFORNIA CORPORATION,  
WITH AND INTO "WEATHERFORD ARTIFICIAL LIFT SYSTEMS, INC."  
UNDER THE NAME OF "WEATHERFORD ARTIFICIAL LIFT SYSTEMS, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE THIRTIETH DAY OF JUNE, A.D. 2000, AT 9 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



  
\_\_\_\_\_  
Edward J. Freel, Secretary of State

STATE OF DELAWARE  
SECRETARY OF STATE  
DIVISION OF CORPORATIONS  
FILED 09:00 AM 06/30/2000  
001337431 - 2308484

**CERTIFICATE OF OWNERSHIP AND MERGER**

OF

**TRICO INDUSTRIES, INC.**  
(a California corporation)

INTO

**WEATHERFORD ARTIFICIAL LIFT SYSTEMS, INC.**  
(a Delaware corporation)

It is hereby certified that:

1. Weatherford Artificial Lift Systems, Inc. (hereby referred to as the "Parent Company") is a business corporation of the State of Delaware.
2. The Parent Company is the owner of all of the outstanding shares of preferred and common stock of Trico Industries, Inc., which is a business corporation of the State of California (the "Subsidiary").
3. The laws of the jurisdiction of organization of the Subsidiary permit the merger of a business corporation of that jurisdiction with a business corporation of another jurisdiction.
4. The Parent Company hereby merges the Subsidiary into the Parent Company.
5. The following is a copy of the resolutions adopted on June 20, 2000 by the Board of Directors of the Company to merge the Subsidiary into the Parent Company:

**RESOLVED**, that the Subsidiary be merged into its Parent Company, and that all of the estate, property, rights, privileges, powers, and franchises of Trico Industries, Inc. be vested in and held and enjoyed by the Parent Company as fully and entirely and without change or diminution as the same were before held and enjoyed by the Subsidiary in its name; and



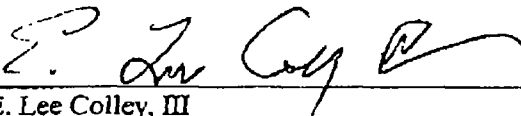
**RESOLVED FURTHER**, that the Parent Company assumes all of the obligations of the Subsidiary; and

**RESOLVED FURTHER**, that this Parent Company shall cause to be executed and filed and/or recorded the documents prescribed by the laws of the State of Delaware, by the laws of the State of California, and by the laws of any other appropriate jurisdiction and will cause to be performed all necessary acts within the jurisdiction of organization of the Subsidiary and of the Parent Company and in any other appropriate jurisdiction; and

**RESOLVED FURTHER**, that the effective time of the Certificate of Ownership and Merger setting forth a copy of these resolutions shall be June 30, 2000, and that, insofar as the General Corporation Law of the State of Delaware shall govern the same, said time shall be the effective merger time.

Executed on this 20<sup>th</sup> day of June, 2000.

Weatherford Artificial Lift Systems, Inc.



E. Lee Colley, III  
President

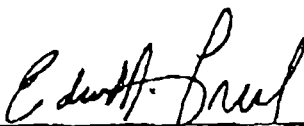
*State of Delaware*  
*Office of the Secretary of State*

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PAGE 1

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP OF "WEATHERFORD ARTIFICIAL LIFT SYSTEMS, INC.", FILED IN THIS OFFICE ON THE THIRTIETH DAY OF JUNE, A.D. 2000, AT 9 O'CLOCK A.M.



  
Edward J. Freel, Secretary of State

STATE OF DELAWARE  
SECRETARY OF STATE  
DIVISION OF CORPORATIONS  
FILED 09:00 AM 06/30/2000  
001337431 - 2308484

**CERTIFICATE OF OWNERSHIP AND MERGER**

OF

**TRICO INDUSTRIES, INC.**  
(a California corporation)

INTO

**WEATHERFORD ARTIFICIAL LIFT SYSTEMS, INC.**  
(a Delaware corporation)

It is hereby certified that:

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4. The Parent Company hereby merges the Subsidiary into the Parent Company.
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**RESOLVED**, that the Subsidiary be merged into its Parent Company, and that all of the estate, property, rights, privileges, powers, and franchises of Trico Industries, Inc. be vested in and held and enjoyed by the Parent Company as fully and entirely and without change or diminution as the same were before held and enjoyed by the Subsidiary in its name; and

**RESOLVED FURTHER**, that the Parent Company assumes all of the obligations of the Subsidiary, and

**RESOLVED FURTHER**, that this Parent Company shall cause to be executed and filed and/or recorded the documents prescribed by the laws of the State of Delaware, by the laws of the State of California, and by the laws of any other appropriate jurisdiction and will cause to be performed all necessary acts within the jurisdiction of organization of the Subsidiary and of the Parent Company and in any other appropriate jurisdiction; and

**RESOLVED FURTHER**, that the effective time of the Certificate of Ownership and Merger setting forth a copy of these resolutions shall be June 30, 2000, and that, insofar as the General Corporation Law of the State of Delaware shall govern the same, said time shall be the effective merger time.

Executed on this 20<sup>th</sup> day of June, 2000.

Weatherford Artificial Lift Systems, Inc.

  
\_\_\_\_\_  
E. Lee Colley, III  
President

## **CONFIDENTIAL INFORMATION**

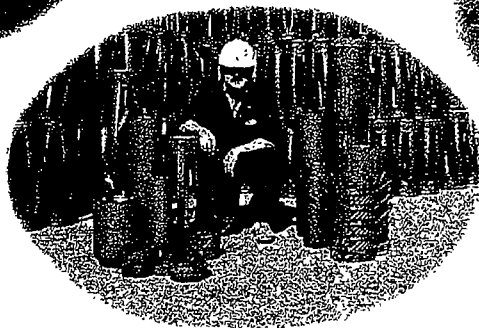
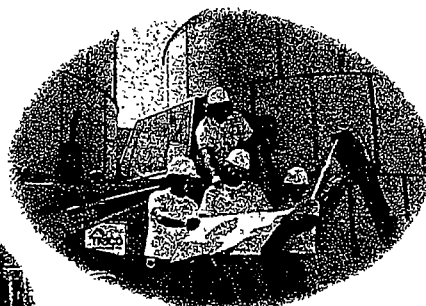
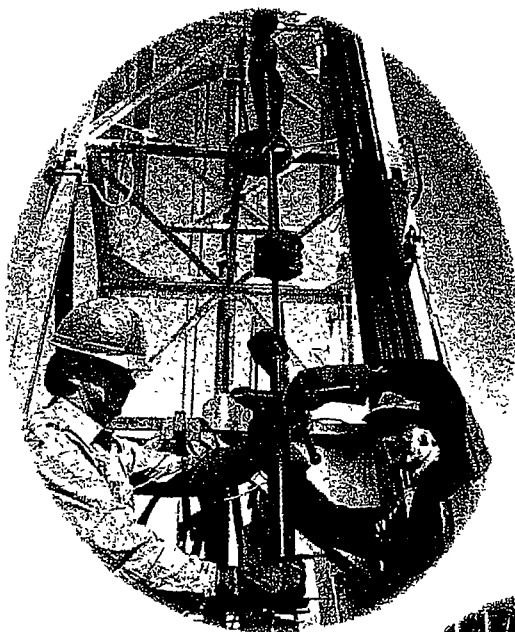
The materials provided herein are deemed to be confidential. This information is not available to the general public for disclosure and is only available to certain individuals within Respondent's organization on a "need to know" basis. The Respondent is restricted from publishing these materials pursuant to confidentiality provisions as provided in the materials. The contents of this Exhibit is proprietary and privileged and could be harmful to Respondent's competitive position if disclosed to the general public. These materials contain sensitive information regarding Respondent's business holdings, asset market value, agreement terms and conditions, and acquisition costs. Respondent requests that the contents of these Responses and Exhibits remain confidential on a permanent basis.

**Pages 167-197 Redacted (Exhibit 7)**

**Confidential Business Information**



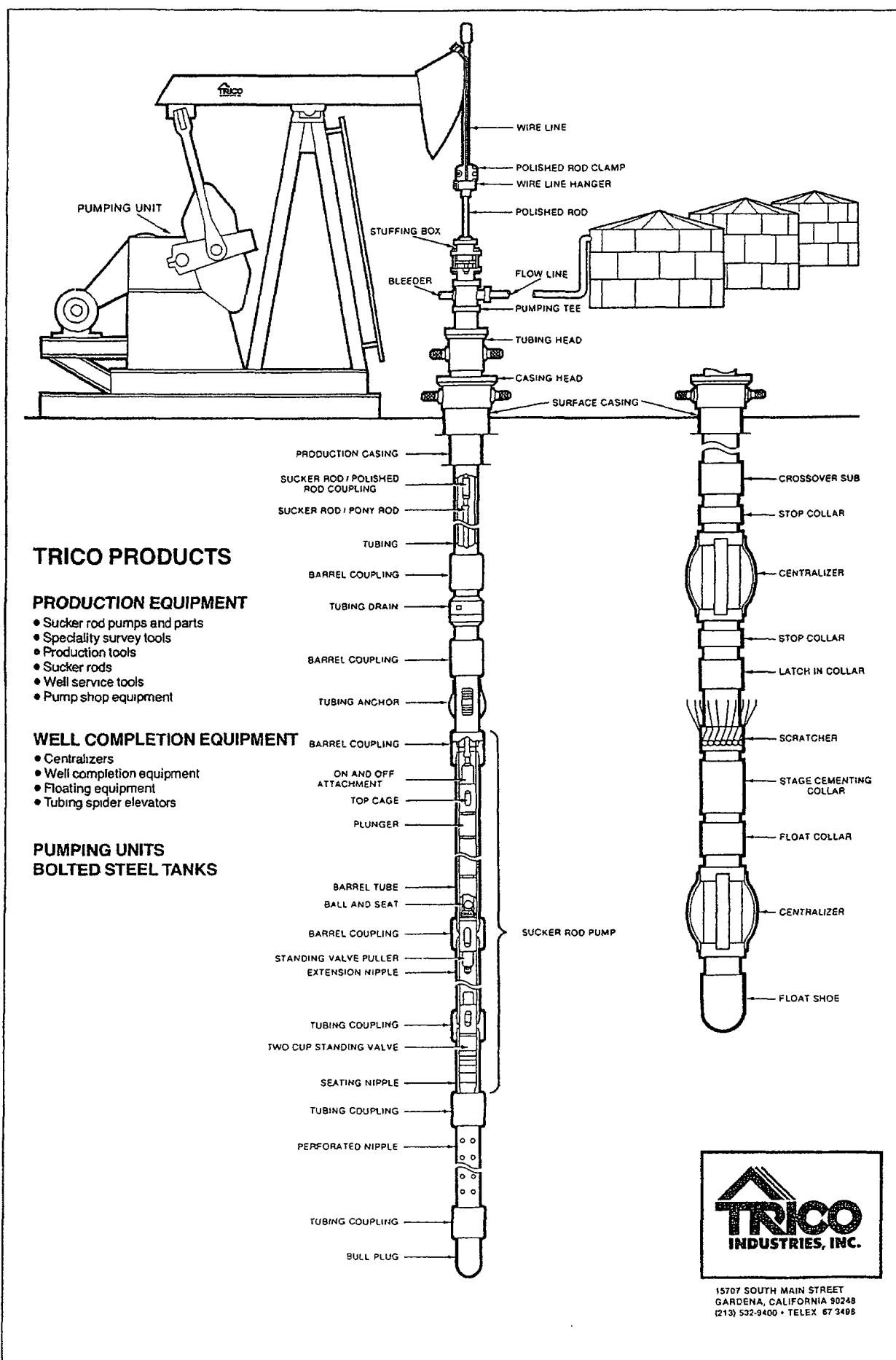
## 1984-1985 CATALOG



We know what you want. And we've got it.









## CENTRALIZERS

### B & W Centralizer Equipment

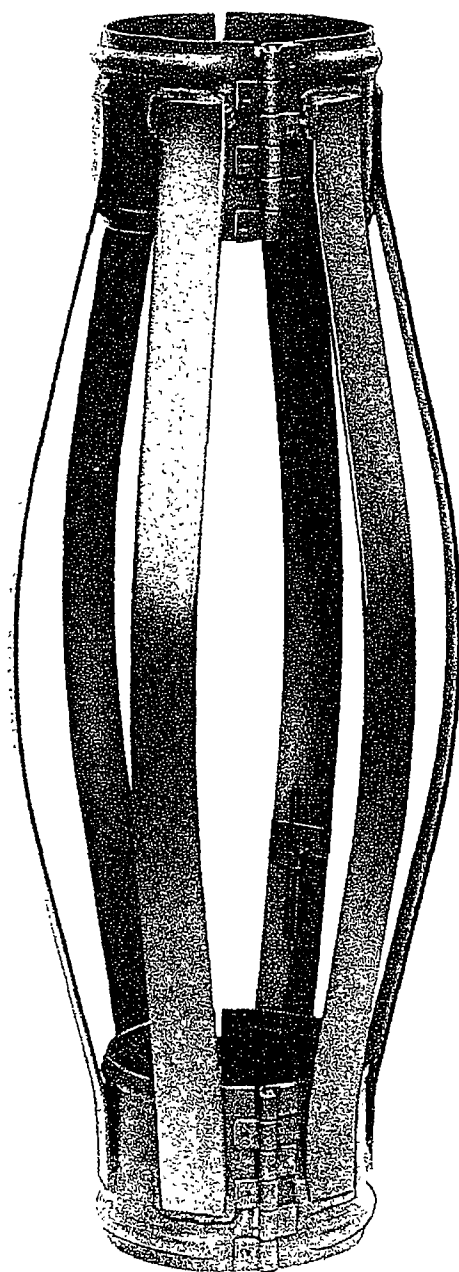
*Featuring the Kon-Kave Bow*

B & W centralizers center the casing in the hole during primary cementing operations to prevent channeling and effect a 360° cement fill. Where scratchers are run, B & W centralizers center the casing to provide uniform scratching over the entire face and height of the cement fill. The "sled" effect facilitates the running of casing regardless of hole direction, hole diameter or irregularities in the formation. Centralizers also agitate drilling fluid and cement slurry in the critical area between casing and formation.

B & W centralizers are placed at preselected points in the well to obtain a more uniform annular cement space. Force and spacing curves are available to help determine spacing recommendations.

B & W centralizer collars are sized to API standards. After assembly, every B & W centralizer is thermally and mechanically stress relieved and fully tested before shipment.

B & W supplies the widest range of centralizers in the industry. There's a B & W centralizer to meet every tubing, liner, or casing-to-hole-size combination per API Std 10D Specification.



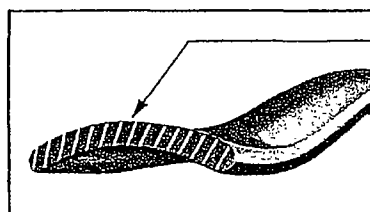
STANDARD CENTRALIZER  
Product No. AA02  
Latch-On-Type

- The arched shape makes it strongest, easiest to run and easiest on the hole
- Rounded profile reduces plow effect, "sleeds" easily
- Exclusive concave cross section increases effective bow strength without increasing bow thickness
- Bows of drop-forged, High-alloy Spring Steel that survive B & W torture test without taking a set
- Stress-relieved in an 800°F oven, compressed repeatedly at a rapid rate and turned on a test mandrel to API specification for collar roundness and alignment

### B&W Standard Centralizers

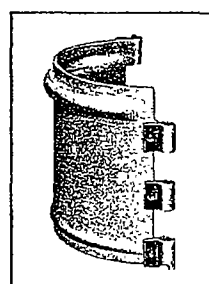
Item	Type	OD = Casing OD +		Length
		Maximum	Minimum	
AA02	Latch-On	4-7/8"	1"	27"

B & W Standard Centralizers provide maximum strength for centering casing and resisting side thrusts. For all normal casing-centering operations, they provide peak performance.



The Arch of the bow conforms to the radius of the hole.

Curved Bow offers greatest resistance to side thrusts.



Integral, forged and welded hinge uses alloy steel pin not soft nails. Strongest hinges in the industry.



## CENTRALIZERS

### B & W Non-Weld Series "N" Centralizers

The B & W Non-Weld Series "N" Centralizer is specifically designed for international markets.

#### Features/Advantages

- **Non-Weld Construction**

Non-Weld construction allows manufacturing in countries where the product is being used.

- **Less shipping and storage space**

The components which are shipped from the U.S. are packaged compactly, requiring up to 75% less storage space than conventional welded centralizers.

- **Designed to exceed A.P.I. Spec 10-D Requirements**

The smooth curvature of the bow springs allows for installation over casing couplings without interference. The bow springs are mechanically locked to the collars, providing the support and flexibility necessary for the most stringent conditions.

- **Durable collar design**

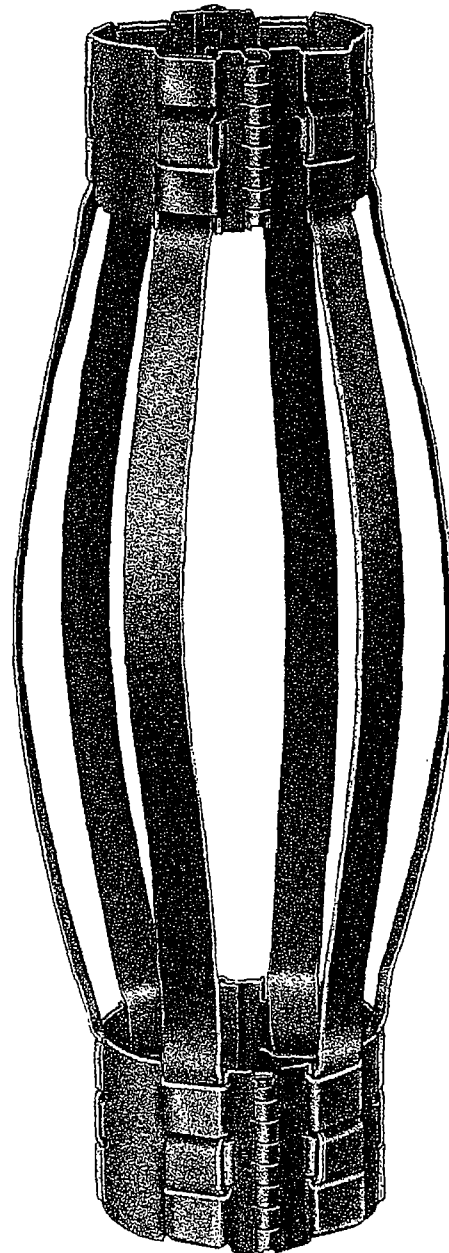
The reinforcing ribs and hinge design provide resistance to deformation under the worst conditions. The alloy steel hinge pins are permanently locked in position and will not work loose.

- **Heat treated premium alloy steel bow springs**

Each bow spring is hardness tested after heat treatment, flattened to its minimum height and then checked for dimensional accuracy and standoff force. B & W's stringent inspection procedures ensure quality, reliability and proper function in the well.

Series	Type	OD = Casing OD +		Length
		Maximum	* Minimum	
NA	Latch-On	2-1/2"	1"	22-1/2"
NB	Latch-On	3"	1-1/8"	22-3/4"
NC	Latch-On	4-3/8"	1-1/4"	25-1/2"
ND	Latch-On	6"	1-1/4"	25-1/4"

\*When centralizer is installed between stop collars or casing collar and stop collar

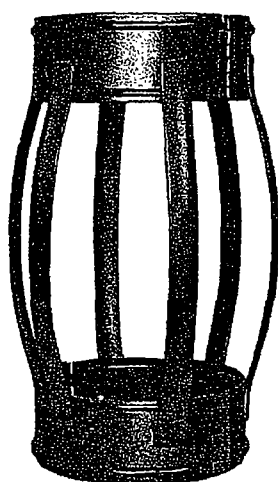


NON-WELD  
SERIES N  
CENTRALIZER  
Product No. NA  
Latch-On Type

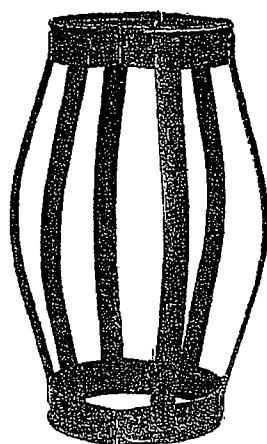
PATENT APPLIED FOR



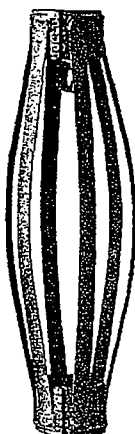
## CENTRALIZERS



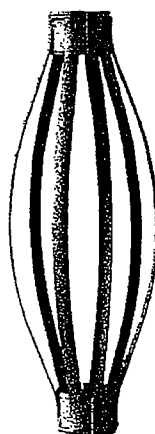
STANDARD CENTRALIZER  
Product No. AG02  
Latch-On-Type



HIGH STRENGTH CENTRALIZER  
FOR OFFSHORE APPLICATIONS  
Product No. AC02  
Latch-On-Type



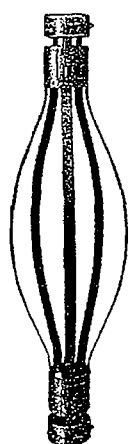
GP LARGE HOLE  
CENTRALIZER  
Product No. AD02  
Latch-On-Type



GP OVERSIZE HOLE  
CENTRALIZER  
Product No. AE02  
Latch-On-Type



GP OVERSIZE HOLE  
LINER CENTRALIZER  
Product No. AE07  
Slip-On-Insert-Type



GP TELESCOPING  
RESTRICTED CLEARANCE  
LINER CENTRALIZER  
(w/Automatic Stop Collar)  
Product No. AE09  
Slip-On-Type



LINER OR SLIM HOLE  
CENTRALIZER  
(w/Automatic Stop Collar)  
Product No. AF22  
Slip-On-Type

### B&W Standard Centralizers

Item	Type	OD = Casing OD +		Length
		Maximum	Minimum	
AG02	Latch-On	3-3/4"	1"	23"

### B&W High Strength Centralizer for Offshore Applications

Item	Type	OD = Casing OD +		Length
		Maximum	Minimum	
AC02	Latch-On	6-1/2"	1"	32"

### B & W GP Centralizers

All GP centralizers are extremely effective in directional hole operations, oversize hole conditions and gravel packing. The long bow design permits travel through restricted casing, yet exerts a strong centering force in enlarged holes.

AD02 GP Large Hole Centralizers are suitable for normal to large hole conditions.

AE02 GP Oversize Hole Centralizers are suitable for normal to oversize hole conditions.

AE07 GP Oversize Hole Liner Centralizers permit running through close-tolerance casing into a large hole below.

AE09 GP Telescoping Restricted-Clearance Liner Centralizers have integral automatic stop collars. They are used where welding is undesirable. The bows are always pulled through the hole to facilitate passage.

Item	Type	OD = Casing OD +		Length
		Maximum	Minimum	
GP Large Hole AD02	Latch-On	6-5/8"	1"	37"
Oversize Hole AE02	Latch-On	10-1/4"	1"	42-1/2"
Oversize Hole Liner AE07	Slip-On (Window)	10-1/8"	1/2"	50"
Telescoping GP Restricted Liner AE09	Slip-On*	10-1/8"	5/8"	58 1/2"

\* Has integral automatic stop collar for application where welding is undesirable.

### B & W Liner or Slim Hole Centralizers

Item	Type	OD = Casing OD +		Length
		Maximum	Minimum	
F22	Slip-On (Insert)*	3-1/4"	3/4"	27"
AB02	Latch-On	2-5/8"	1"	25"

\* With turned automatic stop collar.



## FLOATING EQUIPMENT

### B & W Floating, Guiding, and Cementing Equipment

B & W float and guide shoes provide effective guidance of the running-in string to ensure proper landing, even when the open hole is extensively irregular and deviated. B & W float and baffle collars effectively complement the action of B & W shoes by ensuring the running-in string against contamination or stringing of the shoe joint when the cement plug is seated.

B & W float shoes and collars can be supplied with ball-valve (standard) or flapper-valve (Hyflow) back-pressure control for standard floating action or as automatic fill convertible shoes and collars in a choice of Filtrol Orifice Fill or hydro-differential design for controlled fill while running in. B & W insert valves offer a choice of any of the above valve types with the single exception of hydro-differential. The shoes and collars can also be supplied in stab-in design.

The positive-seal, erosion-proof balls are all of long-wearing, high-impact resin impregnated with a uniform coating of neoprene over their entire surface for maximum sealing ability and to prevent bit gumming and facilitate drill-out.

### B & W Standard Shoes and Collars (Cement Type)

The B & W standard cement-type shoe is supplied as a float shoe (ball-valve type), guide shoe, or bull plug guide shoe; the collar as a float collar (ball-valve type), baffle collar with hole, or solid baffle collar. All shoes are optionally available with or without down-jet ports.

Collar and shoe fittings are of one-piece, high-strength seamless-steel coupling stock in standard API OD's. The valve is cemented into the shell using high strength concrete. Units are normally supplied with 8 Rd or buttress threads. Other threads can be furnished to specifications on request.

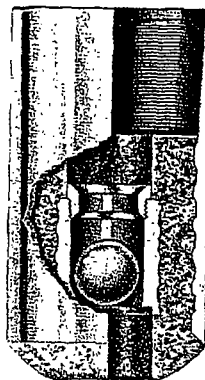
**Cement Float Shoe, Ball-Valve Type, Product No. FA01, and Cement Float Shoe, Ball-Valve Type, Down-Jet, Product No. FA03** — Design permits high-volume circulation to wash away bridges and clean the wall of the hole prior to cementing. Back pressure is controlled positively by the seating of the neoprene-coated ball in the heat-treated aluminum alloy ball seat.

**Cement Float Collar, Ball-Valve Type, Product No. FN01** — Large circulation area allows full volume flow to the shoe below, ensuring effective washing away of bridges and thorough cleaning of the hole. Float collar provides positive back-pressure control as well as rugged stop and seat for the cementing plug.

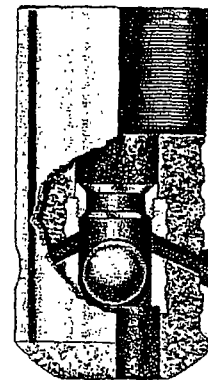
**Cement Guide Shoe, Product No. FC01, and Cement Guide Shoe, Down-Jet, Product No. FC03** — Large internal passageway provides maximum volume flow through guide port during cementation.

**Texas Pattern Casing Shoe, Product No. FC07** — This shoe can be used in running open-ended pipe. It features a full valve opening offering minimum resistance to pump pressure. The resulting higher pump volumes provide easier washdown.

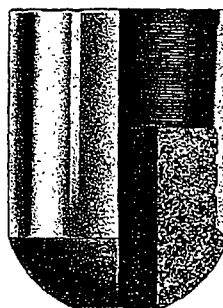
**Cement Bull Plug Guide Shoe, Product No. FD01** — High-strength concrete baffle or bull plug gives dependable isolation of the selected part of the running-in string.



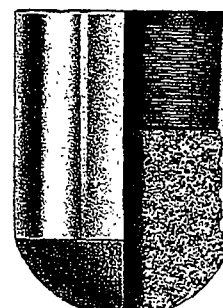
CEMENT FLOAT SHOE  
Product No. FA01  
Ball-Valve-Type



CEMENT FLOAT SHOE  
Product No. FA03  
Ball-Valve-Type  
Down Jet



CEMENT GUIDE SHOE  
Product No. FC01



CEMENT BULL PLUG  
GUIDE SHOE  
Product No. FD01



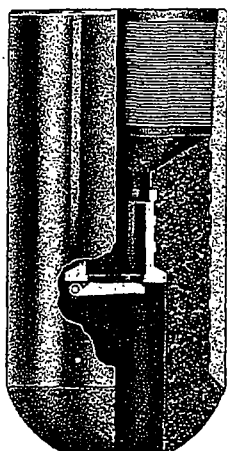
TEXAS PATTERN CASING SHOE  
Product No. FC07



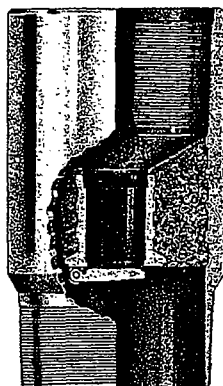
CEMENT FLOAT COLLAR  
Product No. FN01  
Ball-Valve-Type



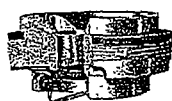
## FLOATING EQUIPMENT



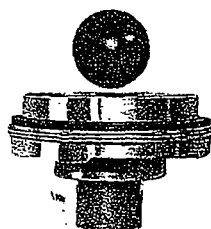
HYFLOW FLOAT SHOE  
Product No. FB01



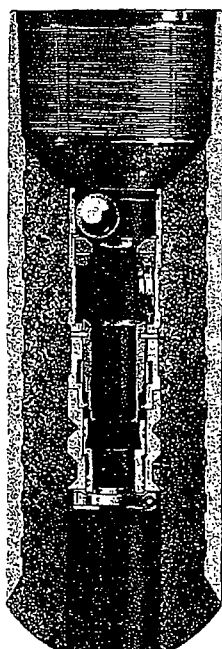
HYFLOW FLOAT COLLAR  
Product No. FP01



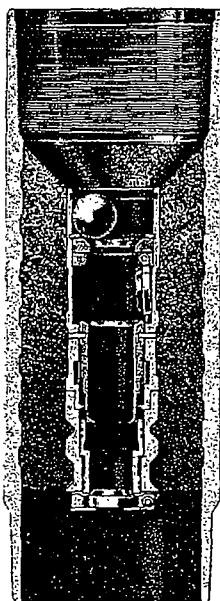
HYFLOW INSERT VALVE  
Product No. FY12



ORIFICE FILL-UP VALVE  
Product No. FY15



HYDRO-DIFFERENTIAL SHOE  
Product No. FG01



HYDRO-DIFFERENTIAL COLLAR  
Product No. FU01

### Hyflow Shoes, Collars and Insert Valves

**B & W Flapper-Valve-Type Hyflow Float Shoes, Float Collars and Insert Valves** are designed to wash away bridges to condition the hole prior to cementing. They provide a flapper-type check valve that allows straight-through circulation without the impingement characteristics of ball- and disc-type construction. Drill-out characteristics are similar to those of a cement plug.

**Hyflow Float Shoe, Product No. FB01, and Hyflow Float Shoe, Down-Jet, Product No. FB03**—These shoes act as perfect guides, even in deviated holes, to ensure proper landing of the casing string. They allow straight-through circulation to accomplish hole conditioning. The neoprene-coated, flapper-type back-pressure valve is spring loaded and comes into instant operation when circulation is discontinued.

**Hyflow Float Collar, Product No. FP01**—The B & W Hyflow Float Collar may be used in conjunction with a standard guide shoe or with a Hyflow float shoe to provide a secondary back-pressure valve. It permits circulation at any time and allows passage of a ball of given size to actuate downhole equipment. Also available are Hyflow Orifice Fill-Up Shoe, Product No. FZ25, and Hyflow Orifice Fill-Up Collar, Product No. FZ55.

**Hyflow Insert Valve, Product No. FY12**—This flapper-valve-type insert valve is designed to provide an economical float or check valve that can be threaded and installed in the "JJ" of any standard API 8 Rd or buttress coupling in a matter of minutes. In operation, it provides the same features as those described above for the Hyflow float collar. A Spacer Ring, Product No. DE02, must be run below the insert valve in certain lighter weights of casing. Always specify the size and weight of the casing to determine whether or not a ring is required.

**Orifice Fill-Up Insert Valve, Product No. FY15**—Installation is the same as for Hyflow insert valve. A fixed orifice tube holds the flapper valve open to provide automatic fill while running in. Unit converts to flapper-type floating equipment when Kirksite ball is dropped and pumped through.

### Hydro-Differential Shoes and Collars

**B & W Hydro-Differential Shoes and Collars** are designed to provide hydrostatically controlled fill of the casing in medium-depth to very deep wells. A 90% fill is possible when one piece of the hydro-differential equipment is used and an 81% fill when two pieces are run together. The equipment greatly reduces the possibility of ram effects, which can damage the production zone and contaminate it by causing drilling mud to cake up and block production. These ram effects may also break down a thief zone. At the same time, practically all displacement circulation is eliminated when hydro-differential equipment is run and this may, in some cases, increase the difficulty of getting casing to bottom and starting circulation.

Hydro-differential shoes and collars are shipped with the 1-3/4 in. ball included. Conversion to floating equipment is accomplished by merely dropping the ball downhole ahead of the cement normally 15 joints above bottom.

Note: When shoe and collar are run together, a single Kirksite ball will serve to trip both units.

**Hydro-Differential Shoe, Product No. FG01, and Hydro-Differential Shoe, Down-Jet, Product No. FG03**—This shoe ensures proper landing of the casing string in the deepest, most deviated holes. Valve limits fill to 90%. When run with ball retained at the surface, the shoe allows straight-through circulation at any time before or after conversion to float equipment, and ensures positive back-pressure control after the ball has been pumped through the valve as pins holding the inner sleeve shear and release the upper flapper.

**Hydro-Differential Collar, Product No. FU01**—This collar effectively limits fill to 90% and provides backup for the hydro-differential shoe.

**Pages 206-324 Redacted (Exhibit 9)**

**Confidential Business Information**